



NORTH CENTRAL FOREST EXPERIMENT STATION  
Forest Service - US Dept. of Agriculture  
1992 Folwell Avenue  
St. Paul, Minnesota 55108

# TIMBER VOLUME IN KANSAS COUNTIES, 1981

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**ABSTRACT.**—The third forest inventory of Kansas shows a growing-stock volume of 711.3 million cubic feet and a sawtimber volume of 2,566.2 million board feet in 1981. Hardwoods make up over 99 percent of these totals.

**KEY WORDS:** Growing stock, sawtimber, softwoods, hardwoods.

Kansas's 1,207,900 acres of commercial forest land supported 711.3 million cubic feet in growing-stock trees in 1981 (table 1). Included in the total volume of growing stock are 2,566.2 million board feet<sup>1</sup> of saw-log material (table 2). This compares with 1,191,500<sup>2</sup> acres of commercial forest land in 1965<sup>3</sup> that supported 502.6 million cubic feet, for an increase of 42 percent in total volume. Growing-stock volume per acre increased from 422 cubic feet in 1965 to 589 cubic feet in 1981, a gain of 40 percent. Sawtimber volume on commercial forest increased 31 percent—from 1,954.5 million board feet in 1965 to 2,566.2 million board feet in 1981 (table 3).

Kansas is divided into Northeastern, Southeastern, and Western inventory units (fig. 1). Seventy-nine percent of the growing-stock volume and 75 percent of the sawtimber volume is in the two eastern units. Hardwoods make up 99 percent of both growing-stock and sawtimber volume in Kansas. Cottonwood accounts for the largest volume of grow-

ing stock on commercial forest land (19 percent), followed by hackberry (12 percent), ash and bur oak (9 percent each), and black walnut (8 percent). Sawtimber species distribution is similar to the growing-stock distribution: cottonwood (24 percent), red oak (12 percent), hackberry (12 percent), bur oak (11 percent), and ash and black walnut (7 percent each).

Elm growing-stock volume dropped drastically from 89.2 million cubic feet in 1965 to 30.6 million cubic feet in 1981. The drop in board-foot volume of elm was even more significant—from 358.3 million board feet in 1965 to less than 69.5 million board feet in 1981. This loss was due to Dutch elm disease.

The volume of all timber on commercial forest land in Kansas in 1981 was 927.0 million cubic feet—711.3 million in growing-stock trees, 211.3 million in rough and rotten trees, and 4.4 million in salvable dead trees. An additional 100.6 million cubic feet were found in growing-stock and short-log trees on wooded strips.

The total board-foot volume on commercial forest land in 1981 was 2,566.2 million board feet in sawtimber and 147.9 million board feet in short log<sup>4</sup> trees. An additional 315.5 million board feet were found in sawtimber and short-log trees on wooded strips.<sup>5</sup>

<sup>1</sup>International 1/4-inch rule.

<sup>2</sup>Nine hundred acres that were called commercial forest land in 1965, but were Christmas tree plantations (productive-reserved) in 1981, have been subtracted.

<sup>3</sup>Figures have been adjusted from those published for the 1965 survey to conform to 1981 volumes because of changes in survey definitions and procedures.

<sup>4</sup>A live sawtimber-sized tree of commercial species that was at least one 8-foot log, but less than a 12-foot log, that meets minimum log grade specifications and therefore is not classified as growing stock.

<sup>5</sup>An acre or more of continuous forest land that meets the definition of commercial forest land except that it is less than 120 feet wide and is therefore classified as nonforest.

Table 1.--Net volume of growing stock<sup>1/</sup> on commercial forest land by county and species group, Kansas, 1981  
(In thousand cubic feet)

County	Species group											Other hardwoods		
	All species	Easter'n redcedar	Bur oak	Other white oak	Red oak	Pecan	Soft maple	Ash	Cotton-wood	Black walnut	Elm		Hackberry	Sycamore
Atchison	15,257	154	1,511	1,444	2,228	--	366	740	1,792	1,430	529	2,112	614	2,337
Brown	10,457	132	985	1,312	1,930	--	173	517	517	1,075	345	1,177	420	1,874
Clay	10,580	49	1,053	495	783	--	395	527	2,301	956	381	1,745	481	1,414
Dickinson	9,597	54	867	446	945	--	292	430	2,061	864	348	1,509	473	1,308
Doniphan	14,275	148	1,477	1,209	2,205	--	446	640	1,307	1,568	533	1,740	446	2,556
Douglas	12,880	163	840	1,013	2,386	--	310	287	1,967	1,430	809	1,111	444	3,073
Franklin	11,623	121	996	1,005	2,386	86	391	395	1,016	1,383	626	1,091	319	2,480
Geary	10,510	52	1,074	779	1,070	--	352	438	1,790	1,164	447	1,333	363	1,648
Jackson	12,804	76	1,314	753	1,077	--	791	839	2,022	1,298	637	1,447	133	2,417
Jefferson	21,868	170	1,607	1,652	3,676	--	552	637	2,910	2,453	1,238	1,788	900	4,285
Johnson	14,091	135	1,458	1,360	1,948	--	453	665	1,326	1,418	545	1,924	584	2,275
Leavenworth	28,182	92	2,572	1,834	3,976	75	872	1,076	6,126	2,924	1,468	1,994	1,232	3,956
Marshall	13,713	108	1,391	881	1,362	--	553	619	2,060	1,335	1,812	1,862	485	2,457
Miami	25,522	242	2,645	2,461	3,527	64	844	1,324	2,347	2,517	963	3,476	972	4,157
Nemaha	6,733	35	643	401	555	--	362	451	1,123	708	310	774	60	1,311
Osage	17,114	125	1,615	1,338	2,084	--	483	677	2,446	1,780	737	2,158	712	2,959
Pottawatomie	22,350	190	2,040	1,645	2,771	--	640	859	2,993	2,167	941	3,085	881	4,138
Riley	16,697	161	1,648	1,230	2,099	--	483	666	2,292	1,693	699	2,149	615	2,962
Shawnee	13,618	98	1,346	1,027	1,504	--	481	712	1,896	1,357	517	1,862	458	2,360
Wabaunsee	17,097	78	1,734	1,100	1,536	--	642	811	3,296	1,725	751	2,274	621	2,529
Washington	5,949	29	715	393	536	--	453	370	871	629	318	619	95	921
Wyandotte	4,176	34	371	479	912	40	125	165	102	492	140	460	139	694
All counties	315,093	2,446	29,902	24,157	40,962	265	10,459	13,845	43,561	32,366	13,932	37,640	11,447	54,111
SOUTHEASTERN UNIT														
Allen	5,884	36	528	230	426	180	351	709	347	530	263	1,334	259	691
Anderson	7,855	76	597	654	793	283	376	829	392	731	394	1,491	302	937
Bourbon	22,505	165	1,078	4,352	4,300	386	572	1,776	440	2,022	1,089	2,682	794	2,849
Butler	13,210	56	777	410	1,034	676	863	2,132	701	1,197	775	2,297	709	1,583
Chase	6,451	33	667	163	393	151	425	765	377	527	233	1,659	296	762
Chautauqua	23,805	248	1,088	4,623	3,612	1,140	805	2,432	563	2,240	1,358	2,221	774	2,701
Cherokee	10,615	113	511	1,470	1,338	662	399	1,289	540	1,115	648	1,033	348	1,149
Coffey	4,132	66	218	588	525	241	112	369	264	492	252	445	103	457
Cowley	17,562	67	1,148	757	1,360	502	1,150	2,392	617	1,517	973	3,797	992	2,290
Crawford	13,088	110	1,047	1,055	2,009	398	630	1,490	689	1,178	606	2,490	541	1,448
Elk	14,054	131	1,645	1,966	2,009	651	561	1,622	490	1,308	817	1,611	529	1,714
Greenwood	13,017	102	1,240	606	1,003	412	651	1,382	1,005	1,231	605	2,847	469	1,464
Labette	7,380	98	364	1,166	985	448	245	804	315	801	435	696	223	800
Linn	30,993	308	2,022	4,251	5,331	645	1,027	2,713	1,109	2,723	1,221	4,720	1,101	3,822
Lyon	8,015	24	699	313	588	109	507	964	289	658	370	1,998	441	1,055
Marion	4,533	23	238	284	416	213	269	660	177	737	278	758	236	584
Montgomery	13,509	176	959	1,795	1,999	319	487	1,196	349	1,244	571	2,250	532	1,632
Morris	4,669	29	405	265	376	81	276	531	183	396	208	1,107	238	574
Neosho	6,724	70	327	1,057	884	387	233	750	313	710	404	652	209	728
Wilson	15,578	103	801	2,960	2,804	374	449	1,394	322	1,368	753	1,784	541	1,925
Woodson	5,549	78	285	853	729	320	164	535	304	619	336	569	150	607
All counties	249,128	2,112	15,644	29,818	32,311	8,578	10,552	26,734	9,786	23,004	12,589	38,441	9,787	29,772

(Table 1 continued on next page)

(Table 1 continued)

## WESTERN UNIT

County	Species group													
	All species	Eastern redcedar	Bur oak	Other white oak	Red oak	Pecan	Soft maple	Ash	Cotton-wood	Black walnut	Elm	Hackberry	Sycamore	Other hardwoods
Barber	5,793	--	558	--	--	--	--	627	3,560	73	134	400	5	436
Barton	853	--	114	--	--	--	--	150	360	18	25	92	--	94
Cheyenne	2,109	--	262	--	--	--	--	263	1,072	37	66	206	3	200
Clark	4,226	--	149	--	--	--	--	800	2,782	35	49	223	--	188
Cloud	7,886	--	1,037	--	--	--	--	676	4,360	180	273	676	20	664
Comanche	668	--	51	--	--	--	--	220	259	10	15	49	--	64
Decatur	1,527	--	223	--	--	--	--	208	684	30	51	164	1	166
Edwards	1,616	--	81	--	--	--	--	103	1,228	11	63	61	--	69
Ellis	1,924	--	261	--	--	--	--	268	878	43	60	196	1	217
Ellsworth	2,438	--	374	--	--	--	--	284	1,157	52	77	252	8	234
Finney	208	--	14	--	--	--	--	74	84	--	5	18	--	13
Ford	381	--	34	--	--	--	--	111	146	7	12	24	--	47
Gove	120	--	17	--	--	--	--	11	58	4	3	14	--	13
Graham	3,520	--	459	--	--	--	--	495	1,723	63	111	318	7	344
Grant	85	--	--	--	--	--	--	27	46	3	--	--	--	9
Gray	1,218	--	21	--	--	--	--	135	1,008	--	8	26	--	20
Greeley	20	--	--	--	--	--	--	--	20	--	--	--	--	--
Hamilton	1,940	6	135	--	--	--	--	747	700	10	43	161	--	138
Harper	3,857	--	352	--	--	--	--	676	2,040	80	96	248	8	357
Harvey	1,095	--	108	--	--	--	--	241	516	7	40	76	--	107
Haskell	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Hodgeman	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Jewell	6,175	--	545	--	--	--	--	990	3,377	70	156	536	1	500
Kearny	253	--	--	--	--	--	--	7	226	--	--	20	--	--
Kingman	6,624	--	557	--	--	--	--	1,099	3,691	158	168	329	20	602
Kiowa	216	6	13	--	--	--	--	27	135	--	5	19	--	11
Lane	46	--	7	--	--	--	--	12	15	--	2	5	--	5
Lincoln	2,454	--	285	--	--	--	--	305	1,273	55	72	218	3	243
Logan	608	6	85	--	--	--	--	98	263	12	21	56	1	66
McPherson	3,338	--	327	--	--	--	--	285	2,068	61	94	243	4	256
Meade	1,349	--	82	--	--	--	--	283	752	18	27	101	--	86
Mitchell	5,770	--	718	--	--	--	--	986	2,785	136	157	403	24	561
Morton	1,329	5	124	--	--	--	--	263	647	14	40	115	--	121
Ness	323	--	68	--	--	--	--	44	126	7	13	33	3	29
Norton	1,894	--	266	--	--	--	--	355	786	27	72	179	3	206
Osborne	5,334	--	714	--	--	--	--	657	2,810	87	155	436	16	459
Ottawa	5,503	--	732	--	--	--	--	929	2,565	131	154	427	24	541
Pawnee	1,280	--	93	--	--	--	--	185	774	13	28	93	--	94
Phillips	4,304	--	399	--	--	--	--	764	2,168	95	111	307	3	457
Pratt	1,538	--	103	--	--	--	--	130	1,075	18	39	86	--	87
Rawlins	1,461	--	228	--	--	--	--	195	637	31	49	159	3	159
Reno	5,515	--	512	--	--	--	--	978	2,960	121	137	290	17	500
Republic	6,077	--	498	--	--	--	--	751	3,743	60	166	440	1	418
Rice	1,748	--	99	--	--	--	--	105	1,363	14	39	57	3	68
Rooks	5,649	--	553	--	--	--	--	827	3,250	78	136	363	12	430
Rush	91	--	13	--	--	--	--	23	30	--	5	9	--	11
Russell	3,592	--	451	--	--	--	--	340	1,990	67	115	319	7	303

(Table 1 continued on next page)

(Table 1 continued)

County	All species	Species group												
		Eastern redcedar	Bur oak	Other white oak	Red oak	Pecan	Soft maple	Ash	Cotton-wood	Black walnut	Elm	Hackberry	Sycamore	hardwoods
Saline	2,507	--	379	--	--	--	--	334	1,152	60	87	237	8	250
Scott	102	--	26	--	--	--	17	33	2	5	10	1	1	8
Sedgwick	5,643	--	785	--	--	44	947	2,615	140	166	396	31	31	563
Seward	1,565	--	138	--	--	--	224	850	34	36	131	--	--	152
Sheridan	997	--	113	--	--	--	107	564	19	25	79	1	1	89
Sherman	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Smith	2,513	--	315	--	--	--	388	1,187	39	79	250	--	--	255
Stafford	3,904	10	101	--	--	--	153	3,371	21	59	78	--	--	111
Stanton	10	--	--	--	--	--	--	10	--	--	--	--	--	--
Stevens	425	--	61	--	--	--	68	177	7	16	47	--	--	49
Summer	13,831	--	1,596	--	--	99	1,850	7,845	212	481	833	61	61	810
Thomas	522	--	17	--	--	--	11	458	4	3	14	--	--	15
Trego	1,044	--	121	--	--	--	241	456	21	29	71	4	4	101
Wallace	76	--	--	--	--	--	27	37	3	--	--	--	--	9
Wichita	--	--	--	--	--	--	--	--	--	--	--	--	--	--
All counties	147,094	33	15,374	--	--	143	21,121	80,945	2,498	4,078	10,593	304	304	12,005
All units	711,315	4,591	60,920	53,975	73,273	8,986	61,700	134,292	57,868	30,599	86,674	21,538	21,538	95,888

1/The volume of sound wood in the bole of growing-stock trees 5.0 inches d.b.h. and larger, from a 1-foot stump to a minimum of 4.0 inch top diameter outside bark, or to the point where the central stem breaks into limbs.

Table 2.--Net volume of sawtimber<sup>1/</sup> on commercial forest land by county and species group, Kansas, 1981  
(In thousand board feet)<sup>2/</sup>

County	Species group											Other hardwoods		
	All species	Eastern redcedar	Bur oak	Other white oak	Red oak	Pecan	Soft maple	Ash	Cotton-wood	Black walnut	Elm		Hackberry	Sycamore
Atchison	54,573	366	6,083	5,180	9,197	--	1,463	2,252	8,305	4,589	1,073	6,462	2,993	6,610
Brown	36,117	296	3,781	4,690	8,160	--	759	1,636	2,220	3,191	592	3,475	2,047	5,270
Clay	39,325	118	4,730	1,870	3,014	--	1,472	1,610	10,634	3,097	838	5,475	2,264	4,203
Dickinson	35,993	132	3,752	1,576	3,788	--	1,087	1,242	9,590	2,930	755	4,716	2,183	4,242
Doniphan	49,986	295	6,220	3,945	9,307	--	1,833	1,882	5,429	5,042	1,000	5,271	2,130	7,632
Douglas	42,738	268	3,111	3,519	11,703	--	1,455	515	4,079	3,784	1,519	3,242	2,133	7,112
Franklin	38,449	214	3,949	3,073	8,739	184	1,817	1,076	4,187	3,725	1,125	3,174	1,674	5,592
Geary	36,690	108	4,473	2,700	4,611	--	1,446	1,315	7,606	3,527	905	4,036	1,780	4,183
Jackson	43,704	185	5,918	2,157	3,615	--	3,744	2,978	9,697	3,475	940	4,132	730	6,133
Jefferson	74,959	276	5,903	5,823	16,847	--	2,506	1,541	13,421	6,745	2,174	5,049	4,673	10,001
Johnson	49,515	290	6,286	4,634	8,157	--	1,715	2,033	5,521	4,368	1,185	5,960	2,643	6,723
Leavenworth	102,019	172	9,657	6,561	16,292	161	4,046	3,276	29,964	8,475	2,003	5,490	6,509	9,442
Marshall	48,596	205	6,316	3,097	5,832	--	2,337	1,939	8,787	4,078	1,135	5,486	2,309	7,175
Miami	90,177	560	11,131	8,876	14,683	138	3,393	4,267	10,034	7,787	1,742	10,601	4,735	12,265
Nemaha	23,062	75	2,941	1,121	1,962	--	1,626	1,473	5,519	1,893	512	2,280	326	3,334
Osage	59,394	268	6,721	4,649	8,665	--	2,018	2,002	10,789	5,255	1,521	6,399	3,382	7,725
Pottawatomie	78,642	399	8,642	5,798	12,157	--	2,538	2,394	13,621	6,478	1,929	9,320	4,270	11,096
Riley	58,691	316	7,011	4,245	8,978	--	1,940	1,856	10,314	5,157	1,304	6,633	2,956	7,981
Shawnee	15,386	209	5,842	3,606	6,148	--	1,933	2,320	8,034	4,207	969	5,732	2,197	7,460
Mabaunsee	60,783	181	7,414	3,923	6,232	--	2,649	2,565	14,466	5,214	1,537	6,916	3,039	6,647
Washington	20,775	95	3,039	1,299	2,366	--	2,285	1,535	3,657	1,729	374	1,614	535	2,247
Wyandotte	14,768	78	1,370	1,279	3,964	92	502	447	229	1,780	375	1,351	560	2,695
All counties	1,107,613	5,106	124,290	83,621	174,417	575	44,464	42,154	196,103	96,526	25,507	112,814	56,268	145,768
NORTHEASTERN UNIT											SOUTHEASTERN UNIT			
Allen	21,738	92	2,647	514	1,675	573	1,596	2,344	1,341	1,702	671	5,200	1,362	2,021
Anderson	27,000	249	2,891	1,266	3,036	896	1,640	2,647	1,522	2,105	934	5,656	1,556	2,602
Bourbon	71,539	396	4,404	8,779	18,003	1,433	1,998	5,348	1,935	5,887	2,500	9,119	3,674	8,063
Butler	46,894	105	4,001	1,052	3,958	1,648	3,518	7,694	2,854	3,558	1,822	8,109	3,475	5,100
Chase	24,968	63	3,390	467	1,622	504	2,034	2,512	1,457	1,875	625	6,649	1,590	2,180
Chautauqua	67,063	624	4,452	8,328	12,729	3,158	3,066	7,863	2,431	5,139	2,892	6,307	3,451	6,623
Cherokee	31,617	362	2,188	2,756	4,714	2,013	1,500	4,260	2,096	2,755	1,453	3,009	1,512	2,999
Coffey	12,314	226	901	1,183	1,882	896	388	1,080	954	1,213	615	1,405	452	1,119
Cowley	63,884	146	5,837	1,681	5,114	1,349	4,610	8,511	2,551	4,781	2,628	13,720	5,130	7,826
Crawford	46,381	279	5,111	2,143	5,659	1,234	2,797	4,666	2,697	3,774	1,405	9,595	2,763	4,258
Elk	43,253	309	2,879	3,786	7,709	1,662	2,154	5,507	2,059	3,235	1,733	5,207	2,447	4,566
Greenwood	46,996	261	6,025	1,304	4,076	1,501	2,976	4,171	3,741	3,782	1,519	11,252	2,486	3,902
Labette	21,649	341	1,531	2,210	3,427	1,455	920	2,606	1,232	1,918	987	1,975	973	2,074
Linn	108,858	872	9,424	9,522	23,463	2,443	4,601	8,340	4,558	8,671	2,667	18,265	5,260	10,772
Lyon	30,369	64	3,492	784	2,380	368	2,128	3,303	1,187	2,231	1,070	7,488	2,360	3,539
Marion	15,386	39	1,188	601	1,519	497	1,048	2,352	736	1,158	662	2,591	1,166	1,804
Montgomery	46,711	572	4,488	3,891	8,117	1,311	2,197	3,686	1,484	3,793	1,411	8,224	2,683	4,984
Morris	17,333	68	2,024	598	1,448	283	1,729	1,731	1,346	1,346	1,579	4,215	1,271	1,849
Neosho	19,672	223	1,361	1,959	3,101	1,211	868	2,412	1,208	1,762	915	1,900	910	1,842
Wilson	48,604	208	3,327	5,826	11,493	1,148	1,683	4,392	1,461	3,807	1,654	5,903	2,474	5,228
Woodson	16,317	266	1,178	1,643	2,580	1,125	586	1,624	1,125	1,500	1,795	1,724	658	1,513
All counties	828,546	5,765	72,739	60,293	127,705	26,708	43,370	87,049	39,358	65,992	29,537	137,513	47,653	84,864

(Table 2 continued on next page)

(Table 2 continued)

## WESTERN UNIT

County	All species	Species group										Other hardwoods		
		Eastern redcedar	Bur oak	Other white oak	Red oak	Pecan	Soft maple	Ash	Cotton-wood	Black walnut	Elm		Hackberry	Sycamore
Barber	24,420		3,286					2,098	15,259	192	415	1,827	30	1,313
Barton	3,602		682					384	1,719	40	77	393	--	307
Cheyenne	9,479		1,546					926	5,090	86	256	856	14	705
Clark	16,070		894					862	11,764	89	182	1,744	--	535
Cloud	35,800		6,038					2,585	20,618	517	1,111	2,588	114	2,229
Comanche	2,343		301					432	1,105	39	43	300	--	123
Decatur	6,682		1,325					731	3,156	69	158	684	8	551
Edwards	7,701		485					344	6,147	37	215	271	--	202
Ellis	8,415		1,554					870	4,165	106	192	811	8	709
Ellsworth	11,295		2,171					1,050	5,746	129	284	1,055	45	815
Finney	644		81					101	258	--	13	161	--	30
Ford	1,432		199					342	638	31	33	114	--	75
Gove	564		102					40	300	8	10	56	--	48
Graham	15,315		2,689					1,652	7,992	168	377	1,300	37	1,100
Grant	331		--					77	239	15	--	--	--	0
Gray	4,729		121					165	4,176	--	20	202	--	45
Greeley	64		--					--	64	--	--	--	--	0
Hamilton	5,824		799					928	2,482	27	122	1,119	--	347
Harper	15,991		2,025					1,459	9,683	253	385	1,043	46	1,097
Harvey	4,100		642					758	1,958	31	105	365	--	241
Haskell	--		--					--	--	--	--	--	--	0
Hodgeman	--		--					--	--	--	--	--	--	0
Jewell	25,053		3,234					2,550	12,891	194	462	4,259	8	1,455
Kearny	1,100		--					--	703	--	--	397	--	0
Kingman	27,313		3,139					2,410	17,522	561	732	1,162	114	1,673
Kiowa	850		79					74	415	--	13	239	--	30
Lane	165		39					37	45	--	6	23	--	15
Lincoln	11,408		1,691					1,031	6,612	147	258	884	15	770
Logan	2,564		497					306	1,218	32	68	229	7	207
McPherson	16,099		1,932					998	10,841	153	331	966	23	855
Meade	5,462		496					356	3,490	43	86	736	--	255
Mitchell	25,013		4,064					2,837	13,858	459	587	1,548	135	1,525
Morton	5,120		736					633	2,415	38	117	829	--	352
Ness	1,520		381					171	674	20	45	115	15	99
Norton	7,736		1,556					1,149	3,343	76	215	776	15	606
Osborne	23,232		4,119					2,272	12,841	238	510	1,718	88	1,446
Ottawa	23,652		4,153					2,324	12,643	407	569	1,778	134	1,644
Pawnee	5,247		552					561	2,997	46	77	788	--	226
Phillips	17,710		2,360					2,036	10,058	301	384	1,279	15	1,277
Pratt	7,272		618					317	5,532	41	121	357	--	286
Rawlins	6,524		1,343					699	3,059	73	157	648	15	530
Reno	22,406		2,891					2,254	13,769	431	525	1,132	97	1,307
Republic	26,475		2,962					1,995	16,771	144	495	2,812	8	1,288
Rice	8,136		568					366	6,625	44	122	218	15	178
Rooks	23,373		3,188					2,240	14,395	239	465	1,538	67	1,241
Rush	329		79					74	88	--	13	45	--	30
Russell	17,278		2,649					1,245	10,372	159	374	1,414	37	1,028

(Table 2 continued on next page)



Table 3.—*Net volume of growing stock and sawtimber on commercial forest land by species group for 1965 and 1981*

Species	Growing stock		Sawtimber	
	1965 <sup>1</sup>	1981	1965 <sup>1</sup>	1981
	<i>Thousand cubic feet</i>		<i>Thousand board feet<sup>2</sup></i>	
<b>Softwoods</b>				
Eastern redcedar	216	4,591	511	10,871
<b>Total</b>	<b>216</b>	<b>4,591</b>	<b>511</b>	<b>10,871</b>
<b>Hardwoods</b>				
Bur oak	36,925	60,920	173,124	286,120
Select white oak	11,501	34,121	36,194	107,383
Other white oak	10,484	19,854	19,229	36,531
Select red oak	26,020	45,828	103,966	183,457
Other red oak	19,438	27,445	84,208	118,665
Hickory	13,103	29,081	30,502	67,696
Pecan	8,040	8,986	36,974	28,043
Hard maple	2,259	3,120	5,563	6,280
Soft maple	9,005	21,011	37,644	87,834
Ash	35,714	61,700	107,524	185,760
Cottonwood	101,052	134,292	459,058	610,060
Basswood	3,614	6,031	15,438	25,763
Elm	89,243	30,599	358,279	69,531
Black walnut	36,751	57,868	107,950	169,979
Willow	10,772	11,629	44,370	47,901
Hackberry	48,909	86,674	169,049	299,581
Sycamore	24,613	21,538	125,288	105,631
Other hardwoods	14,941	46,027	38,675	119,143
<b>Total</b>	<b>502,384</b>	<b>706,724</b>	<b>1,953,035</b>	<b>2,555,358</b>
<b>All species</b>	<b>502,600</b>	<b>711,315</b>	<b>1,953,546</b>	<b>2,566,229</b>

<sup>1</sup>Figures have been adjusted from those published for the 1965 survey to conform to 1981 areas because of changes in survey definitions and procedures.

<sup>2</sup>International 1/4-inch rule.

The sampling error of volume for the survey was 3.52 percent for the 711.3 million cubic feet of growing stock in the State.

The third forest inventory of Kansas was conducted in 1979 and 1980 by the North Central Forest Experiment Station with cooperation from State and Extension Forestry, Kansas State University. Special funding requested by the 1980 Kansas Governor and appropriated by the 1980 Kansas Legislature allowed State and Extension Forestry to provide additional personnel to intensify the field sample. Aerial photography was provided by the Kansas Office of the USDA Agricultural Stabilization and Conservation Service.